



FORM PTO - 1449

ATTORNEY DOCKET NO.: MDS-009CN

SECOND SUPPLEMENTAL

APPLICANTS: Modell *et al.*

INFORMATION DISCLOSURE STATEMENT

SERIAL NO.: 09/841,325

FILING DATE: April 24, 2001

GROUP: 3737

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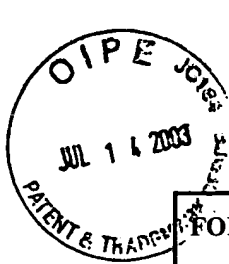
U.S. PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
111	A133	2002/0007123 A1	1/17/02	Balas et al	600	476	12/15/00
	A134	3,632,865	1/4/72	Haskell et al.	178	6	12/23/69
	A135	3,890,462	06/17/75	Limb et al	178	6.8	04/17/74
	A136	3,963,019	06/15/75	Quandt et al	128	2	11/25/74
	A137	4,071,020	01/31/78	Puglise et al	128	2	06/3/76
	A138	4,218,703	8/19/80	Netravali et al	358	136	03/16/79
	A139	4,273,110	06/16/81	Groux	128	6	07/11/79
	A140	4,549,229	10/22/85	Nakano et al	360	8	1/31/83
	A141	4,800,571	01/24/89	Konishi	375	10	01/11/88
	A142	5,048,946	09/17/91	Sklar et al	351	206	05/15/90
	A143	5,203,328	4/20/93	Samuels et al	128	633	07/17/91
	A144	5,253,071	10/12/93	MacKay	358	222	12/20/91
	A145	5,289,274	2/22/94	Kondo	348	208	1/31/92
	A146	5,345,941	09/13/94	Rava et al	128	665	3/1/93
	A147	5,349,961	09/27/94	Stoddart et al	128	665	09/27/94
	A148	5,419,323	5/30/95	Kittrell et al	128	653	11/17/89
	A149	5,424,543	06/13/95	Dombrowski et al	250	330	04/19/93
	A150	5,450,857	09/19/95	Garfield et al.	128	778	05/19/94
	A151	5,467,767	11/21/95	Alfano et al	128	665	08/27/93
	A152	5,519,545	5/21/96	Kawahara	360	46	11/29/94
	A153	5,562,100	10/8/96	Kittrell et al	128	665	05/25/94
	A154	5,579,773	12/3/96	Vo-Dinh et al	128	665	09/30/94
	A155	5,582,168	12/10/96	Samuels et al	128	633	01/22/93
	A156	5,599,717	2/4/97	Vo-Dinh	436	63	9/2/94
	A157	5,612,540	3/18/97	Richards-Korum et al	250	461.2	3/31/95
111	A158	5,647,368	7/15/97	Zeng et al	128	665	02/28/96

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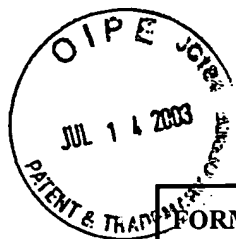
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U.S. PATENT DOCUMENTS

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AL	A159	5,697,373	12/16/97	Richards-Kortum et al	128	664	03/14/95
	A160	5,699,795	12/23/97	Richards-Kortum	128	634	12/23/97
	A161	5,717,209	2/10/98	Bigman et al	250	339.12	4/29/96
	A162	5,735,276	04/7/98	Lemelson et al	128	653	03/21/95
	A163	5,773,835	6/30/98	Sinofsky et al	250	462.1	06/7/96
	A164	5,791,346	08/11/98	Craine et al.	128	653	8/22/96
	A165	5,840,035	11/24/98	Heusmann et al.	600	47	2/1/96
	A166	5,842,995	12/1/98	Mahadevan-Jansen et al	600	473	6/28/96
	A167	5,920,399	7/6/99	Sandison et al.	356	418	3/18/97
	A168	5,921,926	07/13/99	Rolland et al.	600	407	12/31/97
	A169	5,929,985	07/27/99	Sandison et al	365	318	3/18/97
	A170	5,931,779	08/03/99	Arakaki et al.	600	310	6/6/97
	A171	5,938,617	08/17/99	Vo-Dinh	600	476	12/3/96
	A172	5,989,184	11/23/99	Blair et al	600	167	12/5/97
	A173	5,991,653	11/23/99	Richards-Kortum et al	660	475	6/19/96
	A174	6,069,689	05/30/00	Zeng et al	356	773	4/14/98
	A175	6,091,985	7/18/00	Alfano et al.	600	476	1/23/98
	A176	6,095,982	8/1/00	Richards-Kortum et al	600	476	12/11/97
	A177	6,208,887 B1	03/27/01	Clarke et al	600	476	6/24/99
	A178	6,241,662 B1	06/5/01	Richards-Kortum et al	600	310	10/20/98
	A179	6,246,479 B1	06/12/01	Jung et al	356	419	12/23/99
	A180	6,285,639 B1	9/4/01	Maenza et al	369	47.28	4/29/98
	A181	6,377,842 B1	4/23/02	Pogue et al	600	478	8/23/99
	A182	6,385,484 B2	5/7/02	Nordstrom et al.	600	476	12/15/00
	A183	6,411,835 B1	6/25/02	Modell et al.	600	407	2/2/99
AL	A184	6,411,838 B1	6/25/02	Nordstrom et al.	600	476	12/22/99

EXAMINER <i>R. Smith</i>	DATE CONSIDERED <i>8/6/01</i>
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U.S. PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
14	A185	6,421,553 B1	7/16/02	Costa et al.	600	476	12/15/00
	A186	6,427,082 B1	7/30/02	Nordstrom et al.	600	476	12/23/99
	A187	5,690,106	11/25/97	Bani-Hashemi et al.	128	653.1	6/30/95
	A188	5,995,645	11/30/99	Soenksen et al.	382	133	12/4/97
	A189	6,058,322	5/2/00	Nishikawa et al.	600	408	7/25/97
	A190	6,246,471 B1	6/12/01	Jung et al.	356	73	1/10/00
	A191	6,312,385 B1	11/6/01	Mo et al.	600	443	5/1/00
14	A192	6,317,617 B1	11/13/01	Gilhuijs et al.	600	408	7/25/97

FOREIGN PATENT DOCUMENTS

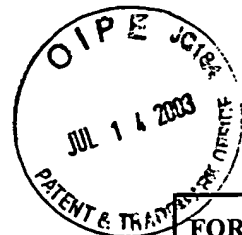
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	B15	0 444 689 A2	9/4/91	EP				Y
	B16	0 737 849 A2	10/16/96	EP				Y
	B17	WO 92/19148	11/12/92	PCT		4/29/92		Y
	B18	WO 97/48331	12/24/97	PCT		6/19/97		
	B19	WO 98/05253	02/12/98	PCT		08/2/96		
	B20	WO 98/24369	06/11/98	PCT		11/20/97	N	Y
	B21	WO 99/18847	4/22/99	PCT		12/14/98		Y
	B22	WO 99/20313	4/29/99	PCT		10/20/98		
	B23	WO 99/20314	4/29/99	PCT		10/20/98		
	B24	WO 99/47041	09/23/99	PCT		03/19/99		
	B25	WO 99/57507	11/11/99	PCT		4/30/99		
	B26	WO 99/57529	11/11/99	PCT		5/4/99		
	B27	WO 00/15101	3/23/00	PCT		9/10/99		

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OTHER ART, JOURNAL ARTICLES, ETC.			
EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)		
	C15	Agrawal et al. (1999), "Fluorescence Spectroscopy of the Cervix: Influence of Acetic Acid, Cervical Mucus, and Vaginal Medications," <u>Lasers in Surgery and Medicine</u> , 25:237-249.	
	C16	Althof et al. (1997), "A rapid and automatic image registration algorithm with subpixel accuracy," <u>IEEE Transactions on Medical Imaging</u> , 16(3):308-316.	
	C17	Aström et al. (1999), "Motion estimation in image sequences using the deformation of apparent contours," <u>IEEE Transactions on Pattern Analysis and Machine Intelligence</u> , 21(2):114-127.	
	C18	Balakrishnama et al. "Linear Discriminant Analysis - A Brief Tutorial," <u>Institute for Signal and Information Processing Department of Electrical and Computer Engineering</u> , 8 pages.	
	C19	Balas (1997), "An Imaging Colorimeter for Noncontact Tissue Color Mapping," <u>IEEE Transactions on Biomedical Engineering</u> , 44(6):468-474. <i>No copies</i>	
	C20	Balas (2001), "A Novel Optical Imaging Method for the Early Detection, Quantitative Grading, and Mapping of Cancerous and Precancerous Lesions of Cervix," <u>IEEE Transactions on Biomedical Engineering</u> , 48(1):96-104.	
	C21	Balas et al. (1997), "A modular diffuse reflection and fluorescence emission imaging colorimeter for the in-vivo study of parameters related with the phototoxic effect in PDT," <u>SPIE</u> , 3191:50-57.	
	C22	Balas et al. (1998), "In Vivo Assessment of Acetic Acid-Cervical Tissue Interaction Using Quantitative Imaging of Back-Scattered Light: Its Potential Use for the In Vivo Cervical Cancer Detection Grading and Mapping," Part of EUROPTO Conference on Optical Biopsy, Stockholm, Sweden, <u>SPIE</u> , Vol. 3568:31-37.	
	C23	Balas et al. (1999), "In Vivo Detection and Staging of Epithelial Dysplasias and Malignancies Based on the Quantitative Assessment of Acetic Acid-Tissue Interaction Kinetics," <u>Journal of Photochemistry and Photobiology B: Biology</u> , 53:153-157.	
	C24	Bessey et al. (1949), "The Fluorometric measurement of the nucleotides of riboflavin and their concentration in tissues," <u>J. Biol.-Chem.</u> , 180:755-769.	
	C25	Bors et al. (1998), "Optical flow estimation and moving object segmentation based on median radial basis function network," <u>IEEE Transactions on Image Processing</u> , 7(5):693-702.	
	C26	Bouthemy et al. (1999), "A unified approach to shot change detection and camera motion characterization," <u>IEEE Transactions on Circuits and Systems for Video Technology</u> , 9(7):1030-1044.	
	C27	Braichotte et al. (1995), "Clinical Pharmacokinetic Studies of Photofrin by Fluorescence Spectroscopy in the Oral Cavity, the Esophagus, and the Bronchi," <u>Cancer</u> 75(11):2760-2778.	
	C28	Brown (1990), "Chemometrics," <u>Anal. Chem.</u> , 62:84R-101R.	
	C29	Camus et al. (1997), "Real-time quantized optical flow," <u>Real-Time Imaging</u> , 3:71-86.	

EXAMINER	DATE CONSIDERED
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OTHER ART, JOURNAL ARTICLES, ETC.			
EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)		
	C30	Caplier et al. (1998), "Real-time implementation of a MRF-based motion detection algorithm," <u>Real-Time Imaging</u> , 4:41-54.	
	C31	Contini et al. (1989), "Colposcopy and Computer Graphics: a New Method?" <u>Amer. J. Obstet. Gynecol.</u> , 160(3):535-538.	
	C32	Craine et al. (1993), "Digital Imaging Colposcopy: basic concepts and applications," <u>Amer. J. Obstet. Gynecol.</u> , 82(5):869-873.	
	C33	Craine et al. (1998), "Digital imaging colposcopy: Corrected area measurements using shape-from-shading," <u>IEEE Transactions on Medical Imaging</u> , 17(6):1003-1010.	
	C34	Crisp et al. (1990), "The Computerized Digital Imaging Colposcope: Future Directions," <u>Amer. J. Obstet. Gynecol.</u> , 162(6):1491-1497.	
	C35	Cronjé et al. (1997), "Effects of Dilute Acetic Acid on the Cervical Smear," <u>Acta. Cytol.</u> , 41:1091-1094.	
	C36	Dickman et al. (2001), "Identification of Cervical Neoplasia Using a Simulation of Human Vision," <u>Journal of Lower Genital Tract Disease</u> , 5(3):144-152.	
	C37	Drezek et al. (1999), "Light scattering from cells: finite-difference time-domain simulations and goniometric measurements," <u>Applied Optics</u> 38(16):3651-3661.	
	C38	Drezek et al. (2000), "Laser Scanning Confocal Microscopy of Cervical Tissue Before and After Application of Acetic Acid," <u>Am. J. Obstet. Gynecol.</u> , 182(5):1135-1139.	
	C39	Dumontier et al. (1999), "Real-time DSP implementation for MRF-based video motion detection," <u>IEEE Transactions on Image Processing</u> , 8(10):1341-1347.	
	C40	Earnshaw et al. (1996), "The Performance of Camera Translation Direction Estimators from Optical Flow: Analysis, Comparison, and Theoretical Limits," <u>IEEE Transactions on Pattern Analysis and Machine Intelligence</u> , 18(9):927-932.	
	C41	Edebiri, A.A. (1990), "The relative significance of colposcopic descriptive appearances in the dianosis of cervical intraepithelial neoplasia," <u>Int. J. Gynecol. Obstet.</u> , 33:23-29.	
	C42	Eisner et al. (1987), "Use of Cross-Correlation Function to Detect Patient Motion During Spectral Imaging," <u>Journal of Nuclear Medicine</u> , 28(1):97-101.	
	C43	Ferris et al. (1998), "Colposcopy Quality Control: Establishing Colposcopy Criterion Standards for the NCI ALTS Trial Using Cervigrams," <u>J. Lower Genital Tract Disease</u> , 2(4):195-203.	
	C44	Fleet et al. (1995), "Recursive Filters for Optical Flow," <u>IEEE Transactions on Pattern Analysis and Machine Intelligence</u> , 17(1):61-67.	
	C45	Gao et al. (1998), "A work minimization approach to image morphing," <u>The Visual Computer</u> , 14:390-400.	

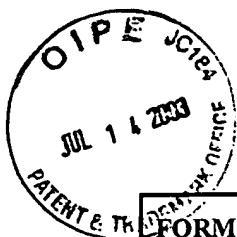
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	C46	Gauch (1999), "Image Segmentation and Analysis Via Multiscale Gradient Watershed Hierarchies," <u>IEEE Transactions on Image Processing</u> , 8(1):69-79.	
	C47	Haralick (1984), "Digital Step Edges from Zero Crossing of Second Directional Derivatives," <u>IEEE Transactions on Pattern Analysis and Machine Intelligence</u> , 6(1):58-68.	
	C48	Harris et al. (1998), "Hybrid Image Segmentation Using Watersheds and Fast Region Merging," <u>IEEE Transactions on Image Processing</u> , 7(12):1684-1699.	
	C49	Helmerhorst et al. (1987), "The accuracy of colposcopically directed biopsy in diagnosis of CIN 2/3." <u>Eur. J. Obstet. Gyn. Reprod. Biol.</u> , 24, 221-229.	
	C50	Horn et al. (1981), "Determining Optical Flow," <u>Artificial Intelligence</u> , 17(1-3):185-203.	
	C51	Horn et al. (1993), "Determining Optical Flow": a retrospective, <u>Artificial Intelligence</u> , 59:81-87.	
	C52	Huang et al. (1979), "A fast two-dimensional median filtering algorithm," <u>IEEE Transactions on Acoustics, Speech, and Signal Processing</u> , 27(1):13-18.	
	C53	Jackway (1996), "Gradient Watersheds in Morphological Scale-Space," <u>IEEE Transactions on Image Processing</u> , 5(6):913-921.	
	C54	Ji et al. (2000), "Texture Analysis for Classification of Cervix Lesions," <u>IEEE Transactions on Medical Imaging</u> , 19(11):1144-1149.	
	C55	Kierkegaard et al. (1995), "Association between Colposcopic Findings and Histology in Cervical Lesions: The Significance of the Size of the Lesion" <u>Gynecologic Oncology</u> , 57:66-71.	
	C56	Kumar et al. (1996), "Optical Flow: A Curve Evolution Approach," <u>IEEE Transactions on Image Processing</u> , 5(4):598-610.	
	C57	Linde et al. (1980), "An algorithm for vector quantizer design," <u>IEEE Transactions on Communications</u> , 28(1):84-95.	
	C58	MacAulay et al. (2002), "Variation of fluorescence spectroscopy during the menstrual cycle," <u>Optics Express</u> , 10(12):493-504.	
	C59	MacLean A.B. (1999), "What is Acetowhite Epithelium," <u>Abstract Book: 10th World Congress of Cervical Pathology and Colposcopy</u> , November 7-11, Buenos Aires, Argentina 41.	
	C60	Marzetta et al. (1999), "A surprising radon transform result and its application to motion detection," <u>IEEE Transactions on Image Processing</u> , 8(8):1039-1049.	
	C61	Miike et al. (1999), "Motion enhancement for preprocessing of optical flow and scientific visualization," <u>Pattern Recognition Letters</u> , 20:451-461.	
	C62	Mikhail et al. (1995), "Computerized colposcopy and conservative management of cervical intraepithelial neoplasia in pregnancy," <u>Acta Obstet. Gynecol. Scand.</u> , 74:376-378.	
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OTHER ART, JOURNAL ARTICLES, ETC.

EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)	
	C63	Milanfar (1999), "Two-dimensional matched filtering for motion estimation," <u>IEEE Transactions on Image Processing</u> , 8(3):438-444.
	C64	Mitchell et al. (1998), "Colposcopy for the diagnosis of squamous intraepithelial lesions: a meta-analysis," <u>Obstet. Gynecol.</u> , 91(4):626-631.
	C65	Mycek et al. (1998), "Colonic polyp differentiation using time-resolved autofluorescence spectroscopy," <u>Gastrointestinal Endoscopy</u> , 48(4):390-394.
	C66	Nanda et al. (2000), "Accuracy of the Papanicolaou test in screening for and follow-up of cervical cytologic abnormalities: a systematic review," <u>Ann Intern Med.</u> , 132(10):810-819.
	C67	Nesi et al. (1998), "RETIME: Real Time Motion Analysis Chip," <u>IEEE Transactions on Circuits and Systems-II: Analog and Digital Signal Processing</u> , 45(3):361-375.
	C68	Noumeir et al. (1996), "Detection of Motion During Tomographic Acquisition by an Optical Flow Algorithm," <u>Computers and Biomedical Research</u> , 29(1):1-15.
	C69	O'Sullivan et al. (1994), "Interobserver variation in the diagnosis and grading of dyskaryosis in cervical smears: specialist cytopathologists compared with non-specialists," <u>J. Clin. Pathol.</u> , 47(6):515-518.
	C70	Ogura et al. (1995), "A cost effective motion estimation processor LSI using a simple and efficient algorithm," <u>IEEE Transactions on Consumer Electronics</u> , 41(3):690-698.
	C71	Okatani et al. (1997), "Shape reconstruction from an endoscope image by shape from shading technique for a point light source at the projection center," <u>Computer Vision and Image Understanding</u> , 66(2):119-131.
	C72	Pan et al. (1998), "Correlation-feedback Technique in Optical Flow Determination," <u>IEEE Transactions on Image Processing</u> , 7(7):1061-1067.
	C73	Perona et al. (1990), "Scale-space and edge detection using anisotropic diffusion," <u>IEEE Transactions on Pattern Analysis and Machine Intelligence</u> , 12(7):629-639.
	C74	Pogue et al. (2001), "Analysis of Acetic Acid-Induced Whitening of High-Grade Squamous Intraepithelial Lesions," <u>Journal of Biomedical Optics</u> , 6(4):397-403.
	C75	Radjadhyaksha et al. (2000), "Confocal microscopy of excised human skin using acetic acid and crossed polarization: rapid detection of non-melanoma skin cancers," <u>Proceedings of SPIE</u> , 3907:84-88.
	C76	Rakshit et al. (1997), "Computation of Optical Flow Using Basis Functions," <u>IEEE Transactions on Image Processing</u> , 6(9):1246-1254.
	C77	Reid et al. (1985), "Genital warts and cervical cancer. VII. An improved colposcopic index for differentiating benign papillomaviral infections from high-grade CIN," <u>Am. J. Obstet. Gynecol.</u> , 153(6):611-618.
	C78	Romano et al. (1997), "Spectroscopic study of human leukocytes," <u>Physica Medica</u> , 13:291-295.

EXAMINER	DATE CONSIDERED
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OTHER ART, JOURNAL ARTICLES, ETC.

EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)	
	C79	Ruprecht et al. (1995), "Image warping with scattered data interpolation methods," <u>IEEE Computer Graphics and Applications</u> , 37-43.
	C80	Sakuma (1985), "Quantitative Analysis of the Whiteness of the Atypical Cervical Transformation Zone", <u>The Journal of Reproductive Medicine</u> , 30(10):773-776.
	C81	Schmid (1999), "Lesion Detection in Dermatoscopic Images Using Anisotropic Diffusion and Morphological Flooding," <u>Proceedings of the International Conference on Image Processing (ICIP-99)</u> , 3:449-453.
	C82	Schmid (1999), "Segmentation and Symmetry Measure for Image Analysis: Application to Digital Dermatoscopy," <u>Ph.D. Thesis, Swiss Federal Institute of Technology (EPFL), Signal Processing Laboratory (LTS)</u> .
	C83	Schmid (1999), "Segmentation of Digitized Dermatoscopic Images by 2D Color Clustering," <u>IEEE Transactions on Medical Imaging</u> , 18(2):164-171.
	C84	Schomacker et al. (1992), "Ultraviolet Laser-Induced Fluorescence of Colonic Tissue; Basic Biology and Diagnostic Potential", <u>Lasers in Surgery and Medicine</u> , 12:63-78.
	C85	Shafarenko et al. (1997), "Automatic Watershed Segmentation of Randomly Textured Color Images," <u>IEEE Transactions on Image Processing</u> , 6(11):1530-1544.
	C86	Shafi et al. (1995), "Modern image capture and data collection technology," <u>Clin. Obstet. Gynecol.</u> , 38(3):640-643.
	C87	Szarewski et al., (1996), "Effect of smoking cessation on cervical lesions size," <u>Lancet</u> , 347:941-943.
	C88	Szeliski et al. (1997), "Spline-based image registration," <u>International Journal of Computer Vision</u> , 22(3):199-218.
	C89	Tadrous (2000), "Methods for Imaging the Structure and Function of Living Tissues and Cells: 2. Fluorescence Lifetime Imaging," <u>Journal of Pathology</u> , 191(3):229-234.
	C90	Thirion et al. (1999), "Deformation analysis to detect and quantify active lesions in three-dimensional medical image sequences," <u>IEEE Transactions on Medical Imaging</u> , 18(5):429-441.
	C91	Toglia et al. (1997), "Evaluation of colposcopic skills in an obstetrics and gynecology residency training program," <u>J. Lower Gen. Tract. Dis.</u> , 1(1):5-8.
	C92	Treameau et al. (1997), "A Region Growing and Merging Algorithm to Color Segmentation," <u>Pattern Recognition</u> , 30(7):1191-1203.
	C93	Van den Elsen et al. (1995), "Automatic registration of ct and mr brain images using correlation of geometrical features," <u>IEEE Transactions on medical imaging</u> , 14(2):384-396.
	C94	Vernon (1999), "Computation of Instantaneous Optical Flow Using the Phase of Fourier Components," <u>Image and Vision Computing</u> , 17:189-199.

EXAMINER	DATE CONSIDERED
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FORM PTO - 1449 SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		ATTORNEY DOCKET NO.: MDS-009CN APPLICANTS: Modell <i>et al.</i> SERIAL NO.: 09/841,325 FILING DATE: April 24, 2001 GROUP: 3737
OTHER ART, JOURNAL ARTICLES, ETC.		
EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)	
	C95	Vincent et al. (1991), "Watersheds in Digital Spaces: An Efficient Algorithm Based on Immersion Simulations," <u>IEEE Transactions on Pattern Analysis and Machine Intelligence</u> , 13(6):583-598.
	C96	Vincent et al. (1993), "Morphological grayscale reconstruction in image analysis: Applications and efficient algorithms," <u>IEEE Transactions on Image Processing</u> , 2(2):176-201.
	C97	Wang et al. (1999), "Fast algorithms for the estimation of motion vectors," <u>IEEE Transactions on Image Processing</u> , 8(3):435-438.
	C98	Weng et al. (1997), "Three-Dimensional Surface Reconstruction Using Optical Flow for Medical Imaging," <u>IEEE Transactions on Medical Imaging</u> , 16(5):630-641.
	C99	Wolberg et al. (1998) "Image morphing: a survey," <u>The Visual Computer</u> , 14:360-372.
	C100	You et al. (1996), "Behavioral analysis of anisotropic diffusion in image processing," <u>IEEE Transactions on Image Processing</u> , 5(11):1539-1558.
	C101	Zahm et al. (1998), "Colposcopic appearance of cervical intraepithelial neoplasia is age dependent," <u>Am. J. Obstet. Gynecol.</u> , 179(5):1298-1304.
	C102	Zeger et al. (1992), "Globally optimal vector quantizer design by stochastic relaxation," <u>IEEE Transactions on Signal Processing</u> , 40(2):310-322.
	C103	Zeng et al. (1993), "A computerized autofluorescence and diffuse reflectance spectroanalyser system for <i>in vivo</i> skin studies," <u>Phys. Med. Biol.</u> , 38:231-240.
	C104	Zeng et al. (1997), "Optimization of fast block motion estimation algorithms," <u>IEEE Transactions on Circuits and Systems for Video Technology</u> , 7(6):833-844.
	C105	Zhang et al. (1999), "Shape from shading: a survey," <u>IEEE Transactions on Pattern Analysis and Machine Intelligence</u> , 21(8):690-706.
	C106	Zheng et al. (1991), "Estimation of illumination direction, albedo, and shape from shading," <u>IEEE Transactions on Pattern Analysis and Machine Intelligence</u> , 13(7):680-702.
	C107	Zhengfang et al. (1998), "Identification of Colonic Dysplasia and Neoplasia by Diffuse Reflectance Spectroscopy and Pattern Recognition Techniques," <u>Applied Spectroscopy</u> , 52(6):833-839.

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FORM PTO - 1449

INFORMATION DISCLOSURE STATEMENT

ATTORNEY DOCKET NO.: MDS-009CN (6219/15)

APPLICANT(S): Modell et al.

SERIAL NO.: 09/841,325

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U.S. PATENT DOCUMENTS

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111	A1	3,013,467	12/19/61	Minsky	88	14	
	A2	4,017,192	4/12/77	Rosenthal et al	356	201	
	A3	4,198,571	4/15/80	Sheppard	250	571	
	A4	4,254,421	3/3/81	Kreutel, Jr.	343	754	
	A5	4,357,075	11/2/82	Hunter	350	294	
	A6	4,397,557	8/9/83	Herwig et al.	356	342	
	A7	4,733,063	3/22/88	Kimura et al.	250	201	
	A8	4,753,530	6/28/88	Knight et al.	356	73	
	A9	4,844,617	7/4/89	Kelderman et al.	356	372	
	A10	4,845,352	7/4/89	Benschop	250	201	
	A11	4,852,955	8/1/89	Doyle et al.	350	1.2	
	A12	4,930,516	6/5/90	Alfano et al.	128	665	
	A13	4,965,441	10/23/90	Picard	250	201.3	
	A14	4,972,258	11/20/90	Wolf et al.	358	93	
	A15	4,997,242	3/5/91	Amos	350	6.91	
	A16	5,011,243	4/30/91	Doyle et al.	350	1.2	
	A17	5,028,802	7/2/91	Webb et al.	250	571	
	A18	5,032,720	7/16/91	White	250	236	
	A19	5,034,613	7/23/91	Denk et al.	250	458.1	
	A20	5,042,494	8/27/91	Alfano	128	665	
	A21	5,054,926	10/8/91	Dabbs et al.	356	345	
	A22	5,065,008	11/12/91	Hakamata et al.	250	216	
	A23	5,071,246	12/10/91	Blaha et al	351	221	
	A24	5,074,306	12/24/91	Green et al.	128	664	

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FORM PTO - 1449				ATTORNEY DOCKET NO.: MDS-009CN (6219/15)			
INFORMATION DISCLOSURE STATEMENT				APPLICANT(S): Modell et al.			
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U.S. PATENT DOCUMENTS							
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<i>RM</i>	A25	5,083,220	1/21/92	Hill	359	234	
	A26	5,091,652	2/25/92	Mathies et al.	250	458.1	
	A27	5,120,953	6/9/92	Harris	250	227.20	
	A28	5,122,653	6/16/92	Ohki	250	216	
	A29	5,132,526	7/21/92	Iwasaki	250	201.3	
	A30	5,139,025	8/18/92	Lewis et al.	128	665	
	A31	5,161,053	11/3/92	Dabbs	359	384	
	A32	5,162,641	11/10/92	Fountain	250	201.2	
	A33	5,162,941	11/10/92	Favro et al.	359	386	
	A34	5,168,157	12/1/92	Kimura	250	234	
	A35	5,192,980	3/9/93	Dixon et al.	356	326	
	A36	Re. 34,214	4/6/93	Carlsson et al.	358	93	
	A37	5,201,318	4/13/93	Rava et al.	128	665	
	A38	5,225,671	7/6/93	Fukuyama	250	216	
	A39	5,235,457	8/10/93	Lichtman et al.	359	368	
	A40	5,239,178	8/24/93	Derndinger et al.	250	234	
	A41	5,248,876	9/28/93	Kerstens et al.	250	561	
	A42	5,260,569	11/9/93	Kimura	250	234	
	A43	5,260,578	11/9/93	Bliton et al.	250	461.1	
	A44	5,262,646	11/16/93	Booker et al.	250	341	
	A45	5,274,240	12/28/93	Mathies et al.	250	458.1	
	A46	5,284,149	2/8/94	Dhadwal et al.	128	665	
<i>RM</i>	A47	5,286,964	2/15/94	Fountain	250	201.2	
EXAMINER <i>R. Smith</i>				DATE CONSIDERED <i>8/03</i>			

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INFORMATION DISCLOSURE STATEMENT

ATTORNEY DOCKET NO.: MDS-009CN (6219/15)

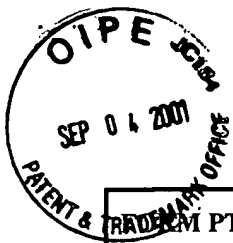
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U.S. PATENT DOCUMENTS

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M	A48	5,294,799	3/15/94	Aslund et al.	250	458.1	
	A49	5,296,700	3/22/94	Kumagai	250	216	
	A50	5,303,026	4/12/94	Strobl et al.	356	318	
	A51	5,306,902	4/26/94	Goodman	250	201.3	
	A52	5,313,567	5/17/94	Civanlar et al	395	124	
	A53	5,324,979	6/28/94	Rosenthal	250	504R	
	A54	5,319,200	6/7/94	Rosenthal et al.	250	341	
	A55	5,329,352	7/12/94	Jacobsen	356	301	
	A56	5,343,038	8/30/94	Nishiwaki et al.	250	234	
	A57	5,345,306	9/6/94	Ichimura et al.	356	346	
	A58	5,418,797	5/23/95	Bashkansky et al.	372	3	
	A59	5,421,337	6/6/95	Richards-Kortum et al.	128	665	
	A60	5,451,931	9/19/95	Muller et al.	340	630	
	A61	5,477,382	12/19/95	Pernick	359	559	
	A62	5,480,775	1/2/96	Ito et al.	435	7.2	
	A63	5,493,444	2/20/96	Khoury et al.	359	559	
M	A64	5,587,832	12/24/96	Krause	359	385	
EXAMINER R Smith				DATE CONSIDERED 8/03			



INFORMATION DISCLOSURE STATEMENT				ATTORNEY DOCKET NO.: MDS-009CN (6219/15)					
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U.S. PATENT DOCUMENTS									
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	B2	EP-A-0280418	8/31/88						
	B3	EP-A-0335725	10/4/89	NO COPIES					
	B4	EP-A-0474264	3/11/92						
	B5	EP-A-0641542	3/8/95						
	B6	WO 94/26168	11/24/94	PCT					
	B7	WO 97/05473	2/13/97	PCT					
OTHER ART, JOURNAL ARTICLES, ETC.									
EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)								
	C1	P. Davidovits et al. "Scanning Laser Microscope for Biological Investigations", Applied Optics, Vol. 10, No. 7, pp. 1615-1619, July 1971.							
	C2	C.J.R. Sheppard et al. "Depth of Field in the Scanning Microscope", Optics Letters, Vol. 3, No. 3, September 1978, pp. 115-117.							
	C3	C.J. Koester, "Scanning Mirror Microscope with Optical Sectioning Characteristics: Applications in Ophthalmology", Applied Optics. Vol. 19, No. 11, June 1980, pp. 1749-1757.							
	C4	T. Wilson., "The Role of the Pinhole in Confocal Imaging Systems", Confocal Microscopy Handbook, pp. 99-113.							
	C5	C. Koester, "Comparison of Optical Sectioning Methods: The Scanning Slit Confocal Microscope", Confocal Microscope Handbook, pp. 189-194.							
EXAMINER					DATE CONSIDERED				

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INFORMATION DISCLOSURE STATEMENT

ATTORNEY DOCKET NO.: MDS-009CN (6219/15)

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EXAM. INIT.	DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG (Y/N)

OTHER ART, JOURNAL ARTICLES, ETC.

EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)							
	C6	Jeffrey W. Hall, et al. "Near-Infrared Spectrophotometry: A New Dimension in Clinical Chemistry", Clin Chem 38/9, 1623-1631 (1992).						
	C7	Kevin F. Schomacker, et al. "Ultraviolet Laser-Induced Fluorescence of Colonic Tissue; Basic Biology and Diagnostic Potential", Lasers in Surgery and Medicine, 12: 63-78, (1992).						
	C8	S. Schwartz, "Real-time laser-scanning Confocal ratio imaging", American Laboratory, pp. 53-62 April 1993.						
	C9	R. Richards-Kortum et al. "Description and Performance of a fiber-optic Confocal Fluorescence Spectrometer, Applied Spectroscopy, Vol. 48, No. 6 pp. 350-355. (1994).						
	C10	J.M. Schmitt et al. "Interferometric Versus Confocal Techniques for Imaging Microstructures in Turbid Biological Media", Proc. SPIE, 2135 (1994), pp. 1-12.						
	C11	N. Ramanuam et al. "Fluorescence Spectroscopy; A Diagnostic Tool for Cervical Intraepithelial Neoplasia (CIN), Gynecologic Oncology 52, pp. 31-38 (1994).						
	C12	S.G. Anderson, "Confocal Laser Microscopes See A Wider Field of Application", Laser Focus World, pp. 83-86, February 1994.						
	C13	J.M. Schmitt et al. "Confocal Microscopy in Turbid Media", J. Opt. Soc. Am., Vol. 11, pp. 2225-2235, August 1994.						
	C14	N. Ramanuam et al. "In vivo diagnosis of cervical intraepithelial neoplasia using 337-nm-excited laser-induced fluorescence", Pro. Natl. Acad. Sci. USA, Vol. 91, pp. 10193-10197, October 1994.						
EXAMINER				DATE CONSIDERED				

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FORM PTO-145	ATTORNEY DOCKET NO.: MDS-00928N
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	FILING DATE: April 24, 2001

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U.S. PATENT DOCUMENTS

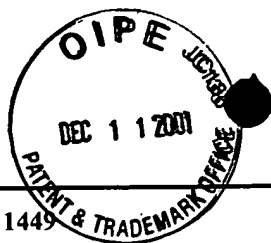
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<i>ll</i>	A65	3,809,072	5/7/74	Ersek et al.	128	23	
	A66	4,662,360	5/5/87	O'Hara et al.	128	9	
	A67	4,741,326	5/3/88	Sidall et al.	128	4	
	A68	4,768,513	9/6/88	Suzuki	128	634	
	A69	4,877,033	10/31/89	Seitz, jr.	128	660.05	
	A70	4,878,485	11/07/89	Adair	128	6	
	A71	4,891,829	1/2/90	Deckman et al.	378	4	
	A72	4,945,478	7/31/90	Merickel et al.	364	413.22	
	A73	4,974,580	12/04/90	Anapliotis	128	4	
	A74	4,979,498	12/25/90	Oneda et al.	128	6	
	A75	5,003,979	4/2/91	Merickel et al.	364	413.22	
	A76	5,022,757	6/11/91	Modell	356	318	
	A77	5,036,853	8/6/91	Jeffcoat et al.	128	634	
	A78	5,154,166	10/13/92	Chikama	128	4	
	A79	5,159,919	11/03/92	Chikama	128	4	
	A80	5,201,908	4/13/93	Jones	128	4	
	A81	5,237,984	8/24/93	Williams, III et al.	128	4	
	A82	5,257,617	11/2/93	Takahashi	128	4	
	A83	5,261,410	11/16/93	Alfano et al.	128	664	
	A84	5,321,501	6/14/94	Swanson et al.	356	345	
	A85	5,325,846	7/5/94	Szabo	128	4	
	A86	5,337,734	8/16/94	Saab	128	4	
	A87	5,398,685	3/21/95	Wilk et al.	128	653.1	
	A88	5,402,768	4/4/95	Adair	128	4	
	A89	5,406,939	4/18/95	Bala	128	4	
<i>ll</i>	A90	5,413,092	5/9/95	Williams, III et al.	128	4	

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SUPPLEMENTAL INFORMATION
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14	A91	5,413,108	5/9/95	Alfano	128	665	
	A92	5,415,157	5/16/95	Welcome	128	4	
	A93	5,419,311	5/30/95	Yabe et al.	128	4	
	A94	5,421,339	6/6/95	Ramanujam et al.	128	665	
	A95	5,458,132	10/17/95	Yabe et al.	128	4	
	A96	5,458,133	10/17/95	Yabe et al.	600	121	
	A97	5,507,295	4/16/96	Skidmore	600	121	
	A98	5,516,010	5/14/96	O'Hara et al.	600	122	
	A99	5,529,235	6/25/96	Bolarski et al.	227	175.1	
	A100	5,536,236	7/16/96	Yabe et al.	600	125	
	A101	5,545,121	8/13/96	Yabe et al.	600	121	
	A102	5,551,945	9/3/96	Yabe et al.	600	122	
	A103	5,556,367	9/17/96	Yabe et al.	600	124	
	A104	5,596,992	1/28/97	Haaland et al.	128	664	
	A105	5,609,560	3/11/97	Ichikawa et al.	600	101	
	A106	5,623,932	4/29/97	Ramanujam et al.	128	665	
	A107	5,662,588	9/2/97	Lida	600	121	
	A108	5,685,822	11/11/97	Harhen	600	125	
	A109	5,693,043	12/2/97	Kittrell et al.	606	15	
	A110	5,695,448	12/9/97	Kimura et al.	600	121	
	A111	5,704,892	1/6/98	Adair	600	121	
	A112	5,707,343	1/13/98	O'Hara et al.	600	121	
	A113	5,713,364	2/3/98	DeBaryshe et al.	128	664	
	A114	5,730,701	3/24/98	Furukawa et al.	600	127	
	A115	5,733,244	3/31/98	Yasui et al.	600	127	
	A116	5,746,695	5/5/98	Yasui et al.	600	127	
	A117	5,768,333	6/16/98	Abdel-Mottaleb	378	37	
14	A118	5,769,792	6/23/98	Palcic et al.	600	477	

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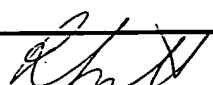
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	A120	5,800,350	9/1/98	Coppleson et al.	600	372	
	A121	5,807,248	9/15/98	Mills	600	322	
	A122	5,813,987	9/29/98	Modell et al.	600	473	
	A123	5,817,015	10/6/98	Adair	600	121	
	A124	5,833,617	11/10/98	Hayashi	600	476	
	A125	5,855,551	1/5/99	Sklandnev et al.	600	372	
	A126	5,860,913	1/19/99	Yamaya et al.	600	127	
	A127	5,865,726	2/2/99	Katsurada et al.	600	127	
	A128	5,876,329	3/2/99	Harhen	600	125	
	A129	6,104,945	8/15/00	Modell et al.	600	473	
	A130	6,119,031	9/12/00	Crowley	600	407	
	A131	6,146,897	11/14/00	Cohenford et al.	436	63	
14	A132	6,169,817 B1	1/2/01	Parker et al.	382	131	

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SUPPLEMENTAL INFORMATION
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FOREIGN PATENT DOCUMENTS

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	B10	0 689 045 A1	12/27/95	EP					Y
	B11	WO 93/14688	8/5/93	PCT					Y
	B12	WO 95/04385	2/9/95	PCT					Y
	B13	WO 98/30889	2/13/97	PCT					Y
	B14	WO 98/41176	9/24/98	PCT					Y

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